

Multimedia Appendix 1

Selection criteria for the systematic review.

Criteria	Inclusion	Exclusion
Population	Perinatal women with <ul style="list-style-type: none"> - Gestational diabetes mellitus, - Type 1 diabetes mellitus or/and - Type 2 diabetes mellitus 	General population with <ul style="list-style-type: none"> - Type 1 diabetes mellitus or/and - Type 2 diabetes mellitus
Intervention	Technology-support self-monitoring intervention <ul style="list-style-type: none"> - Glycemic control, - Diet control, - Appropriate physical activity, - Weight management or/and - Medication adherence 	<ul style="list-style-type: none"> - Diabetic screening reminder system - Not focused on the application of technology - Technology-support for assessment
Comparison	Standard diabetes care	Other diabetic interventions / programme
Primary outcomes	Maternal outcomes: <ul style="list-style-type: none"> - Hemoglobin (Hb)A1c or/and - Caesarean section rate Neonatal outcomes: <ul style="list-style-type: none"> - Neonatal birth weight or/and - Neonatal hypoglycemia 	
Secondary outcomes	Biological outcomes: <ul style="list-style-type: none"> - Fasting blood glucose, - Weight gain, - Change in body mass index (BMI) or/and - Change in weight, Cognitive outcomes: <ul style="list-style-type: none"> - Satisfaction rate, - Empowerment, - Change in self-efficacy for weight, - Change in self-efficacy for activities or/and - Health-related quality of life Behavioral outcomes: <ul style="list-style-type: none"> - Insulin treatment rate or/and - Compliance rate with self-monitoring of blood glucose Emotional outcomes: <ul style="list-style-type: none"> - Depression or/and - Stress Neonatal outcomes: <ul style="list-style-type: none"> - Large for gestational age - Macrosomia 	
Types of design	<ul style="list-style-type: none"> - Randomized controlled trial (RCT) - Controlled clinical trial (CCT) 	<ul style="list-style-type: none"> - Non-experimental studies - Qualitative studies - Review papers
Years of publication	No limit	No limit
Publication type	<ul style="list-style-type: none"> - Published primary research articles - Unpublished theses 	<ul style="list-style-type: none"> - Conference proceedings, - Abstract only - Book chapters review - Letters - Editorials
Language	English	Non-English